

### **What is Claimed is:**

1. An apparatus for testing infrared functions of an infrared transceiver module that is equipped with an infrared transmission capability, comprising:
  - a processor for emitting a test signal;
  - 5 an infrared test module connected to the processor for emitting an infrared tested signal and receiving an infrared result signal, and emitting the infrared tested signal after having received the test signal;
  - a targeted test module connected to the infrared test module to install the infrared transceiver module and test the infrared transceiver module after having received the infrared tested signal, and transmit the infrared result signal back to the processor
  - 10 through the infrared test module for sending out; and
  - a display device connected to the processor for receiving the infrared result signal from the processor and displaying the infrared result signal.
2. The apparatus of claim 1, wherein the targeted test module is connected to the processor, the targeted test module transmitting data of the infrared transceiver
- 15 module to the display device for displaying through the processor after the infrared transceiver module having been installed on the targeted test module.
3. The apparatus of claim 1, wherein the infrared test module further includes a receiver and a controller to respectively emit the infrared tested signal and receive the infrared
- 20 result signal, and control receiving and transmitting of the infrared tested signal, the infrared result signal and the test signal.
4. The apparatus of claim 1, further including an actuator which is connected to the processor to drive the processor to emit the test signal when activated.
5. A method for testing infrared functions of an infrared transceiver module that is

equipped with an infrared transmission capability, comprising steps of:

installing an infrared transceiver module that is equipped with the infrared transmission capability on a targeted test module;

activating an actuator to drive a processor to emit a test signal;

5 receiving the test signal by an infrared test module which emits an infrared tested signal;

receiving the infrared tested signal by the targeted test module;

testing the infrared transceiver module by the targeted test module which sends a infrared result signal back to the infrared test module;

10 receiving the infrared result signal by the infrared test module which sends the infrared result signal back to the processor; and

transferring the infrared result signal from the processor to a display device for displaying the infrared result signal.

6. The method of claim 5, wherein the step of receiving the test signal by an infrared test module which emits an infrared tested signal further includes steps of:

15 receiving the test signal by a transceiver of the infrared test module and transmitting to a controller; and

actuating the transceiver to emit the infrared tested signal by the controller.

7. The method of claim 6, wherein the step of testing the infrared transceiver module by the targeted test module which sends a infrared result signal back the infrared test module is sending the infrared result signal back to the transceiver of the infrared test module.

8. The method of claim 7, wherein the step of receiving the infrared result signal by the infrared test module which sends the infrared result signal back to the processor

further includes the transceiver of the infrared test module receiving the infrared result signal and the controller controlling the infrared result signal and sending back to the processor.

9. The method of claim 5, wherein the step of installing an infrared transceiver module  
5 that is equipped with the infrared transmission capability on a targeted test module is followed by the steps of:

sending data of the infrared transceiver module to the processor by the targeted test module; and

- sending the data of the infrared transceiver module to the display device for  
10 displaying the data by the processor.